



Fig. 5

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AGGTCCACCACCTCCATCTTACACCTGCTTTCGTTGTGGTAAACCTGGTCATTATATTAAGAAT
60
*
120
*
TGCCAACAAATGGGGATAAGAACTTTGAATCTGGTCCTAGGATCAAAAAGAGCACTGGAATTCC
180
*
TAGAAGTTTTATGATGGAAGTGAAAGATCCTAACATGAAAGGTGCAATGCTTACCAACACTGGA
240
*
AAATATGCAATACCAACTATAGATGCAGAGGCCTATGCAATCGGGAAGAAAGAGAAACCACCCT
300
*
TCTTACCAGAGGAGCCATCATCATCTTCAGAAGAAGATGATCCTATCCCAGCAGAGCTCTTGTG
360
*
CCTCATCTGCAAAGACATCATGACTGATGCTGTGGTCATTCCCTGCTGTGGAAACAGTTCATGT
420
*
GATGAATGTATAAGAACGACACTCTTGGAGTCAGATAAACATACATGTCCAACATGTCACCAAA
480
*
ATGATGTTTCTCCTGATGCTTTAATTGCCAACAAGTTTTTACGACAGGCTGTTAATAACTTTAA
540
*
AAATGAAACTGGCTATACAAAACGACTACGAAAACAGTTACCTCCATTTTTATTTTAGTACCA
600
*
CCACCAAGACCACTCAGTCAGCGGAACCTACAGCCTCGTAGTAGATCTCCAATACTAAGACAGC
660
*
AGGATCCTGTAGTATTCAGGTACACTGTCTCGCCTACCTGCTCCGATACTAAGACAGCAGGATC
720
*
CTGTAGTGATTTCAGGTACACTGTCTCGCCTACCTGCTCCGTCTATATCTTCATTAAGTTCTAAT
780
*
CAGTCTTCCTTGGCCCCTCCTGTGTCTGGAAATCCGTCTTCTGCTCCAGCTCCAGTACCTGATA
840
*
TAACTGCAACCGTGTCTATATCAGTCCACTCAGAAAAATCGGATGGACCTTTTCGGGATTCTGA
900
*
TAATAAATTATTGCCAGCTGCCGCCCTTACATCAGAACATTCAAAGGGAGCCTCTTCAATTGCT
1020
*
ATTACTGCTCTTATGGAAGAAAAAGGGGTACCAGGTACCAGTCCTTGGAAGTCCATCTTTGTTG

```

**Fig. 6A**

1080  
\*  
GACAGTCATTATTACATGGACAGTTGATTCCCACAACCTGGCCCAGTAAGAATCAATGCTGCTCG  
1140  
\*  
TCCAGGTGGTGGCCGGCCAGGCTGGGAGCATTCCAACAAGCTTGGGTACCTAGTTTCTCCACCA  
1200  
\*  
CAGCAAATTAGAAGAGGAGAAAGAAGCTGTTACAGAAGTATAAACC GCGGGCGACACCACAGCG  
1260  
\*  
AACGATCACAGAGGACTCAAAGCCCATCACTTCCAGCAACTCCATGCTTTGTGCCCGTTCCACC  
1320  
\*  
ACCTCCTTTGTATCCGCTCCTCCCCATACACTTCCTCTTCTCCAGGTGTACCTCCTCCACAG  
1380  
\*  
TTTTCTCCTCAGTTTCCCTCCTCCCAGCCTCCAACAGCAGGATATAGTGTCCCTCCTCCAGGAT  
1440  
\*  
TTCCACCAGCTCCTGCCAATATATCAACAGCTTGCTTTTCACCAGGTGTTCCCACTGCCCATTCT  
1500  
\*  
AAATACCATGCCCACAACACAAGCACCTCTTTTGTCCAGGGAAGAATTCTATAGAGAGCAAAAC  
1560  
\*  
GACAAAGGAAGAGAGTCTAAATTTCCCTATAGTGGGTCATCGTATTCAAGAAGTTCATACACTG  
1620  
\*  
ACTCAAGTCAAGGTCTGGCTCAACACATTACGCTCTTACTCTCAGTCCTTCAGCTGCTCACAC  
1680  
\*  
TCTCGATCTTCTTCACGATCATCCCCATCCTCCAGAAGAGGCAGAGGCAAGATCTGCAATGATT  
1740  
\*  
GTTTACATGCCAGATCTCATGGATATCGCCCATGCTAGGTCAAGGTCACCTCCCTATAGACGAT  
1800  
\*  
ATCGCTCACGGTCCAGATCTCCTCCAGAATTTAGGGGACAGTCTCCCACTAAACGTAATGTACC  
1860 1920  
\* \*  
TCGAGAAGAGAAAGAACGTGAGTATTTTAATAGATACAGAGAAGTTCACCCCCCTTATGACATC  
1980  
\*  
AAAGCCTATTATGGGCGGAGTGTCGACTTTAGAGACCCATTTGAGAAAGAACGCTACCGGGAAT  
2040  
\*  
GGGAAAGGAAATACCGAGAGTGGTATGAGAAGTACTACAAAGGGTACGCGGTGGGAGCTCAACC

**Fig. 6B**

2100  
\*  
TAGACCCCTCAGCCAATAGAGAGGACTTTTCTCCAGAGAGACTCTTACCTCTTAATATCAGAAAT  
2160  
\*  
TCACCCTTCACAAGAGGCCGCGAGAGAAGACTATGCTGCTGGACAAAGTCATAGAAATAGAAATC  
2220  
\*  
TAGGTGGCAACTATCCAGAAAAGCTTTCAACAAGGGACAGTCACAATGCAAAAGATAATCCAAA  
2280  
\*  
ATCGAAGGAGAAGGAGAGTGAGAATGTTCCAGGAGACGGCAAAGGGAACAAGCATAAGAAACAC  
2340  
\*  
AGGAAACGAAGAAACGAAGAAAAGGGGGAAGAGAGTGAGAGCTTCCTGAACCCAGAGCTACTGG  
2400  
\*  
AGACGTCTAGGAAATGCAGGGGATCGTCAGGGATTGATGAAACGAAGACAGATACACTGTTTGT  
2460  
\*  
TCTCCCAAGCAGAGACGATGCTACACCTGTTAGGGATGAGCCAATGGACGCAGAATCGATCACT  
2520  
\*  
TTCAAGTCAGTATCTGACAAAGACAAGAGGGGAAAAGGATAAGCCAAAAGTAAAAGTGACAAGA  
2580  
\*  
CCAAACGGAAAAGTGACGGGTCTGCTACAGCCAAGAAAGACAATGTTTTAAACCTTCTAAAGG  
2640  
\*  
ACCTCAAGAAAAGGTAGATGGAGACCGTGAAAAGTCTCCTCGGTCTGAGCCGCCACTCAAAAAA  
2700  
\*  
GCCAAAGAGGAGGCTACAAAGATTGACTCTGTAAAACCTTCCTCGTCTTCTCAGAAGGATGAGA  
2760  
\*  
AGGTCACTGGAACCCCTAGAAAAGCCCATTCTAAATCTGCAAAGACACCAGGAGGCAAAGCCA  
2820 2880  
\* \*  
GCCAAGGACGAGAAGGTCAAAAAGGACTGTTCCAAAGACATCAAGTCAGAAAAGCCAGCCAGTA  
2940  
\*  
AGGACGAGAAGGCCAAGAAGCCTGAGAAAAATAAACTACTTGATAGCAAGGGAGAAAAACGAAA  
3000  
\*  
GAGAAAAACGGAAGAAGAGGTGTAGATAAAGATTTTGAGTCGTCTTCAATGAAAATCTCTAAAGT

Fig. 6C

3060  
 \*  
 AGAAGGAACAGAAATAGTGAAACCATCACCAAACGGAAAATGGAAGGTGATGTTGAAAAGCTG  
 3120  
 \*  
 GAAAGGACCCCAGAAAAGGACAAGATTGCATCATCAACTACTCCAGCCAAAAAATCAAACCTCA  
 3180  
 \*  
 ACAGAGAACTGGAAAAAAATTGGAAATGCAGAAAATGCATCTACTACAAAAGAACCCTCTGA  
 3240  
 \*  
 AAAATTGGAGTCAACATCTAGCAAATCAAACAGGAAAAAGTCAAGGGAAAGGCCAAACGGAAA  
 3300  
 \*  
 GTAGCTGGGTCGGAAGGCTCCAGCTCCACGCTTGTGGATTACACCAGTACAAGTTCAACTGGAG  
 3360  
 \*  
 GCAGTCCTGTGAGGAAATCTGAAGAAAAGACAGATACAAAGCGAACAGTCATTAAACTATGGA  
 3420  
 \*  
 GGAATATAATAATGATAACACAGCTCCTGCTGAAGATGTTATAATTATGATCCAGGTTCTCAG  
 3480  
 \*  
 TCCAAATGGGATAAAGATGACTTTGAGTCTGAAGAAGAAGATGTTAAACCACACAACCTATAC  
 3540  
 \*  
 AGAGTGTAGGGAAACCATCGAGTATTATAAAAAATGTCACTACTAAGCCATCGGCTACGGCTAA  
 3600  
 \*  
 GTACACCGAGAAGGAAAGCGAGCAGCCCGAGAACTGCAGAAGCTTCCCAAGGAGGCGAGCCAC  
 3660  
 \*  
 GAGCTGATGCAGCACGAGCTCAGGAGCTCAAAGGGCAGTGCGTCCAGTGAGAAGGGCAGAGCCA  
 3720  
 \*  
 AGGACCGGGAGCACTCAGGGTCGGAGAAGGACAACCCTGACAAGAGGAAGAGCGGTGCCAGCC  
 3780 3840  
 \* \*  
 AGACAAGGAGAGCACTGTGGACCGCCTGAGTGAGCAGGGACATTTTAAGACTCTCTCTCAGTCT  
 3900  
 \*  
 TCCAAAGAGACCAGGACTTCAGAGAAGCACGAGTCTGTTTCGTGGTTCCTCAAATAAAGACTTCA  
 3960  
 \*  
 CTCCTGGTAGAGACAAGAAAGTGGACTACGACAGCAGGGATTATTCCAGTTCCAAGCGAAGAGA  
 4020  
 \*  
 CGAGAGAGGTGAATTAGCAAGGAGAAAAGACTCTCCTCCCCGGGGCAAAGAGTCTCTGTCTGGG

**Fig. 6D**

4080  
\*  
CAGAAAAGCAAGCTGAGGGAGGAGAGAGATTTACCTAAAAAGGGGGCCGAGTCAAAAAAAGTA  
4140  
\*  
ATTCTAGCCCCCAAGAGACAAAAAGCCTCATGATCATAAAGCCCCCTACGAACTAAACGCCC  
4200  
\*  
ATGTGAAGAGACAAAGCCTGTAGATAAAAACTCTGGGAAGGAGCGGGAGAAGCATGCTGCTGAA  
4260  
\*  
GCTCGCAATGGGAAAGAGTCCAGTGGTGCAAACCTGCCATGTATACCTAACCCGCCAGACCCTCC  
4320  
\*  
CATGGAGAAGGAGCTGGCTGCTGGGCAGGTGGAGAAGAGCGCCGTCAAGCCGAAACCCAGCTG  
4380  
\*  
AGCCATTCTCGAGGCTTTCCTCTGACCTGACCCGGGAGACGAACGAGGCAGCCTTTGAACCAG  
4440  
\*  
ATTATAATGAGAGCGACAGTGAGAGTAATGTGTCTGTGAAGGAAGAAGAAGCTGTTGCCAGTAT  
4500  
\*  
CTCCAAGGACTTGAAAGAGAAAACAACAGAGAAAGCGAAAGAGAGCTTGACTGTAGCAACGGCC  
4560  
\*  
AGCCAGCCAGGTGCAGACAGGAGCCAGAGCCAAAGTAGCCCAGTGTTAGTCAGTAGAGTCATAG  
4620  
\*  
CCTTCGGAGCCAGACCCGAAGCCACAGCAGCAGTGCCAGCTCAGCCGGAAGGCCAGGACAGCAA  
4680  
\*  
AAAGAAGAAGAAGAAGGAGAAGAAAAACGACAAGAAGCATAAAAAGCACAAGAAGCACAAG  
4740 4800  
\*  
AAGCACGCAGGCCGACGGCGACGTGGAGAAGAGCCAGAAACACAAACACAAGAAGAAGAGGCC  
4860  
\*  
AAGAAGAACAAGACAAGGAGAAGGAGAAAGATGACCAAAAAGTGAGATCTGTCACTGTGTGAA  
4920  
\*  
GGACGGATGTGTTAATTGACTTAATTACTAAGTCATCTGTATTAAATTCTGTTATAATGTAAAG  
4980  
\*  
AGATTCCAGCCTTGTAATAATGAATGGAAGACCCTGTGCTGCACTTAAAGTATTTGCTGCTT  
5040  
\*  
GATTATTTTCATTTTTACATCAGAGCTTTATAACGAACTTTTGTACAGAATTGTGAGTTGTGACC

Fig. 6E

5100

\*

ATGGAACAGTGAGAGGTTTTGCTAGGGCCTATTATTTTAAACCACCATTAATTAGTTGGGGTGG

5160

\*

AGTTTACTGTACTGTGAAATTTTCACATTTGAATTTTTTAAATTGCCTGGCAA

Fig. 6F